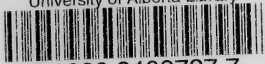


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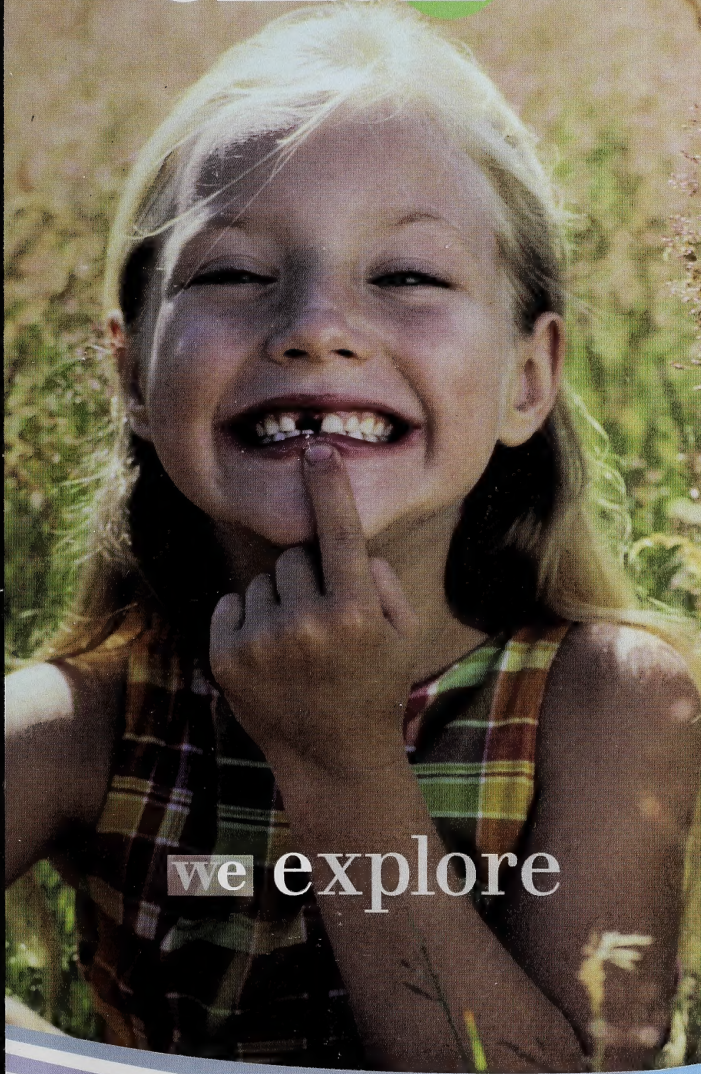
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Learn  veryWare

Math 4 Unit 2




Quizzes and Tests



we explore

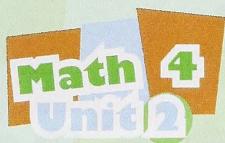
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Creator

Wayne Poncia

Author

Michelle Gainer

Contributing Authors

Grant Mellemstrand
Lisa Read
Nancy Claire Duchaine

Senior Editor

Dr. Mary Ellen Bafumo

Editor

Mary Dillon

Project Manager

Lara Fisher

Production Manager

Sandi van Katwijk

Print Design Coordinator

Carrie Burke

Animators

Rob Jones
Stephen McCallum

Multimedia Designer

Troy Lemberg

Senior Developer

Jenny van Hoof

Publisher K - 12

Dr. Barry Carbol

Publisher Professional Development

Dr. Elizabeth Childs

Math Editors

Harvey Knapp
Wayne Loutet

Proofreader

Leelan Stanjek

Assistant Project Coordinator

Julia Schenck

Product Coordinator

Robert Bailey

Production Designers

Francisco Cumayas
Jacqueline Rimmer
Liviu Peicu
Sherif Sidky

Flash Developers

Harry Kim
Ryan Thomson

Illustrator

Ingrid Mesquita

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Math 4
Unit 2

Quiz
Lesson 1



**Reproducing
Patterns**

1. Draw Xs to model the pattern. Describe the rule.

A	B
1	5
2	10
3	15
4	20

2. Draw circles to construct the pattern. Describe the rule.

A	B
1	1
2	3
3	5
4	7

3. Draw the fourth and fifth figure in this pattern and complete the chart.



Figure	1	2	3	4	5
Perimeter	3	4	5		
Area	1	2	3		

Math 4 Unit 2

Quiz 1 Lesson 2



**Describing
Patterns**

For 1 - 3: Describe the pattern and find the missing numbers.

1.

A	B
1	11
2	14
3	17
4	20
5	
6	
7	

Describe: _____

2.

A	B
1	21
2	25
3	29
4	33
5	
6	
7	

Describe: _____

3.

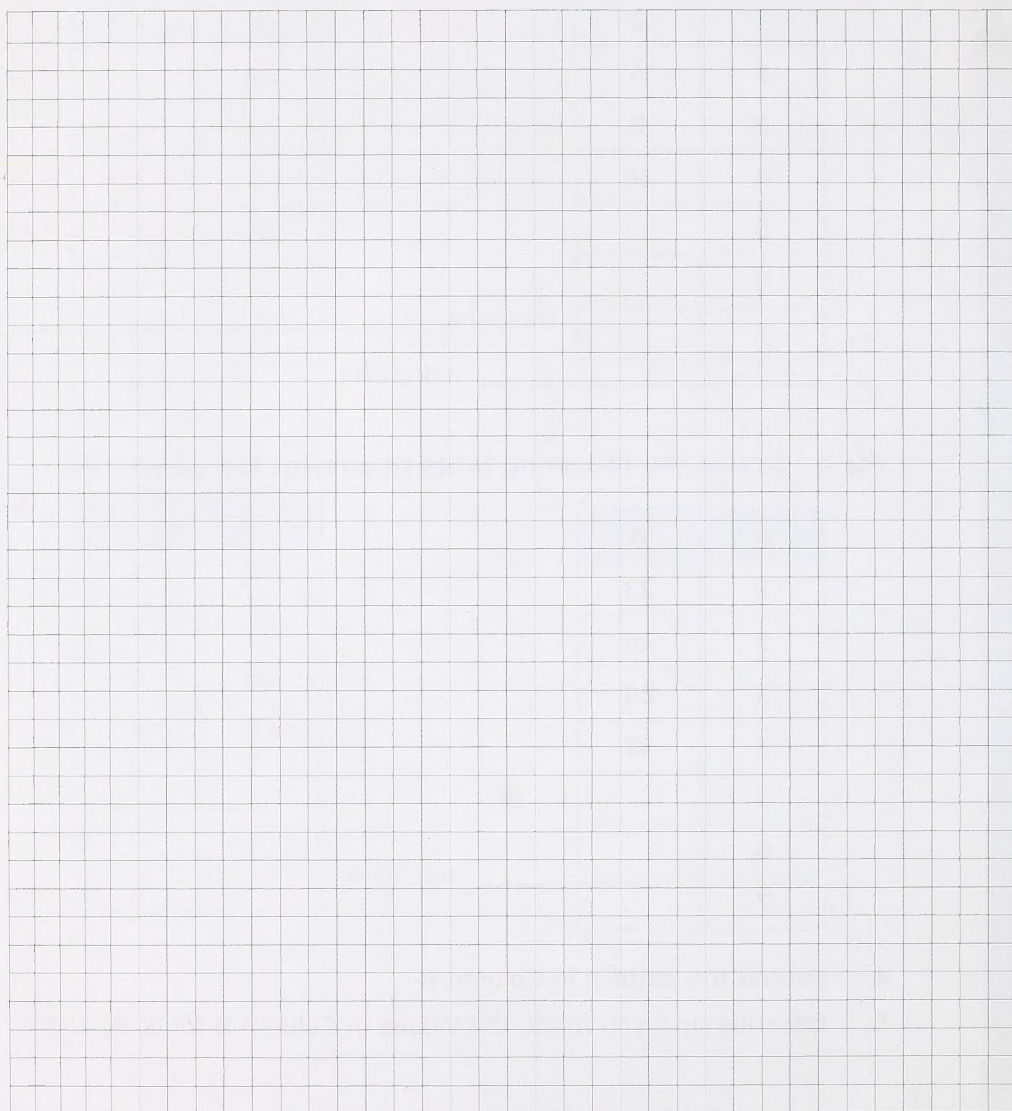
A	B
1	2
2	4
3	8
4	16
5	
6	
7	

Describe: _____

For 4 - 5: Use the following table to answer the questions.

A	B
1	23
2	26
3	29
4	32
5	
6	
7	

4. Extend the pattern in Column B
5. Describe how you found the values in Column B for 5, 6, and 7.



Math 4
Unit 2

Quiz 1
Lesson 3



**Translating
Patterns**

For 1 – 4: Your class is saving money for a spring trip.

Number of Months	Balance in Dollars
1	280
2	560
3	840
4	1 120

1. How much will they have saved in month 6?
2. What is the pattern found in the Balance in Dollars column?
3. What is the rule for Number of Months to Balance in Dollars?
4. How many months will it take them to save \$2 240?

Math

4

Unit 2

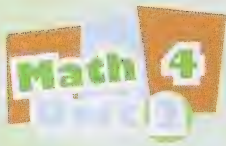
Quiz 1

Lesson 4

4



**Diagramming
Numbers**



Quiz
Lesson 4: Diagramming Numbers

For 1 – 3: Make Carroll diagrams for each of the following:

1. For the set: {50, 40, 35, 32, 30, 24, 25, 20, 10}:

What are the numbers that are greater than 20?

2. For the set: {10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20}:

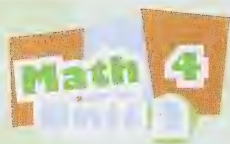
Attribute #1: Greater than 15

Attribute #2: Even

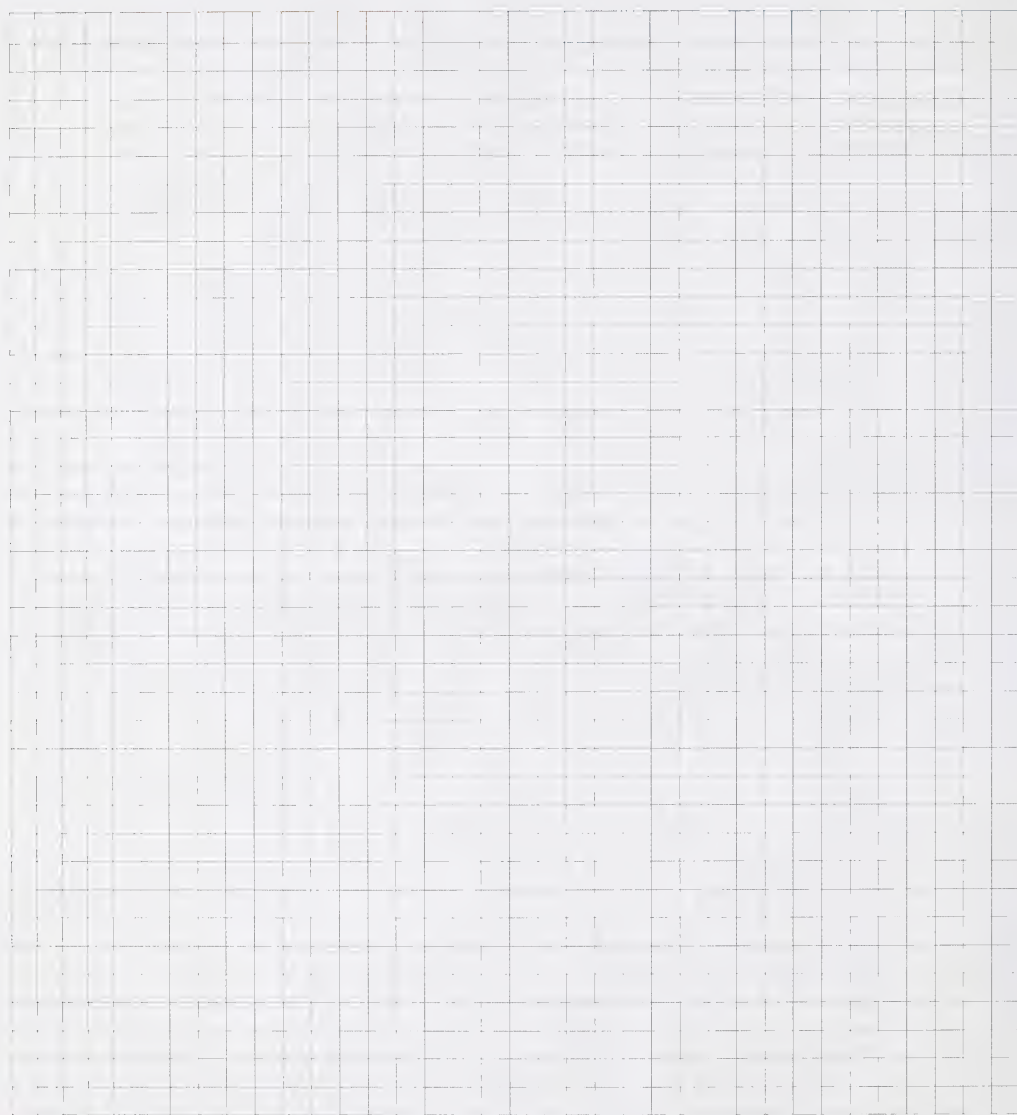
3. For the set: {2, 3, 5, 15, 17, 30, 40, 41, 42, 43, 50, 55, 60}:
Attribute 1: Even Attribute 2: Divisible by 5

For 4: Make a Venn diagram.

4. For the set {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11}:
A = Less than 6 B = Even



Quiz
Lesson 4: Diagramming Numbers



Math 4

Unit 2

Test

Lessons 1 - 4



1. Draw circles to construct the pattern. Describe the rule.

Number of days	km Walked
1	1
2	3
3	6
4	10
5	15

2. Draw circles to construct the pattern. Describe the rule.

A	B
1	2
2	6
3	10
4	14
5	18

3. Draw the fourth and fifth figure in this pattern and complete the chart.



Figure	1	2	3	4	5
Perimeter	6	10	14		
Area	2	6	12		

For 4 - 7: Describe the pattern in Column B and find the missing numbers.

4. _____

A	B
1	2
2	10
3	18
4	
5	
6	
7	
8	

5. _____

A	B
1	3
2	9
3	27
4	
5	

6. _____

A	B
1	120
2	105
3	90
4	
5	
6	
7	
8	

7. _____

A	B
1	256
2	128
3	64
4	32
5	
6	
7	
8	

For 8 – 11: Use the word problem and chart below to answer the questions.

Your class has decided to recycle plastic in the community. The total number of kilograms of plastic you have collected is combined at the end of each month.

Number of Months	kg Collected
1	3
2	6
3	9
4	12
5	15

8. How much will they have collected in month 8?
9. What is the pattern found in the kilograms collected?
10. What is the rule for Number of Months to kg Collected?
11. How many months will it take them to collect 36 kilograms?

For 12 – 14: Make Carroll diagrams for each of the following:

12. For the set $\{24, 13, 18, 19, 22, 12, 16, 27, 15\}$:

What are the numbers that are greater than 18?

13. For the set: $\{21, 22, 23, 24, 25, 26, 27, 28, 29, 30\}$:

Attribute #1: Less than 25

Attribute #2: Even

14. For the set: $\{3, 5, 7, 9, 10, 12, 13, 15, 19, 20, 25, 35, 40, 42, 45\}$:

Attribute 1: Even

Attribute 2: Divisible by 5

For 15 – 17: Make a Venn diagram for each:

15. For the set $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11\}$:

A = Less than 7

B = Even

16. For the set $\{12, 16, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72\}$:

A = Divisible by 4

B = Divisible by 8

17. For the set $\{13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27\}$:

A = Less than 20

B = Odd

Math 4
Unit 2


Quiz 1
Lesson 5




**Addition and
Subtraction
Equations**

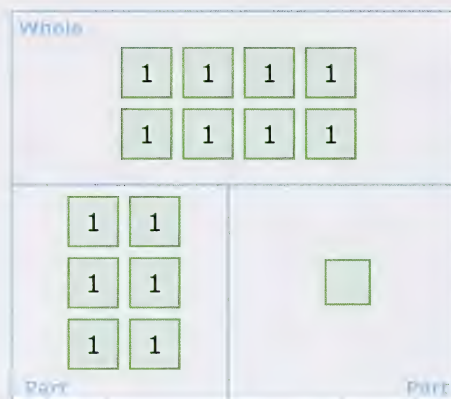
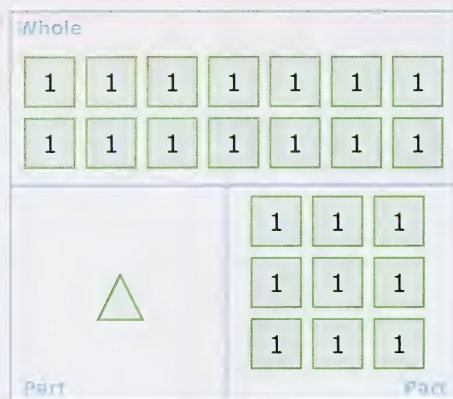
For 1 - 2: Write an equation for the part-whole model. Next, find the unknown value.

1. _____

 = _____


2. _____

 = _____




For 3 - 4: Solve for the unknown value.

3.  + 9 = 17

 = _____

4.  - 5 = 7

 = _____

For 5: Write an equation for the sentence.

5. the sum of a number and four is seven _____

Math 4
Unit 2

Quiz
Lesson 6



**Multiplication
and Division
Equations**

For 1 - 2: Complete the equation for the model shown.

1. $\square \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$



2. $\square \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$



For 3 - 4: Solve for the unknown value.

3. $\triangle \times 8 = 48$

$\triangle = \underline{\hspace{2cm}}$

4. $\square \div 5 = 7$

$\square = \underline{\hspace{2cm}}$

For 5: Write an equation for the sentence.

5. the product of a number and six is twelve $\underline{\hspace{4cm}}$

Math 4
Unit 2

Quiz 1
Lesson 7



**Problem
Solving with
Equations**

For 1 – 3: Create a model for the problem and solve.

Lian has fourteen flowers to plant. She decides to plant 5 of them in her grandmother's yard. Find the number of flowers Lian will plant in her yard.

1. Complete the part-whole model:

2. Write an equation for the model.
3. How many flowers will Lian plant in her own yard?

For 4 – 6: Create a model for the problem and solve.

Cameron has \$200 to spend on presents for five friends. He wants to spend the same amount on each friend. Find the amount Cameron can spend on each friend.

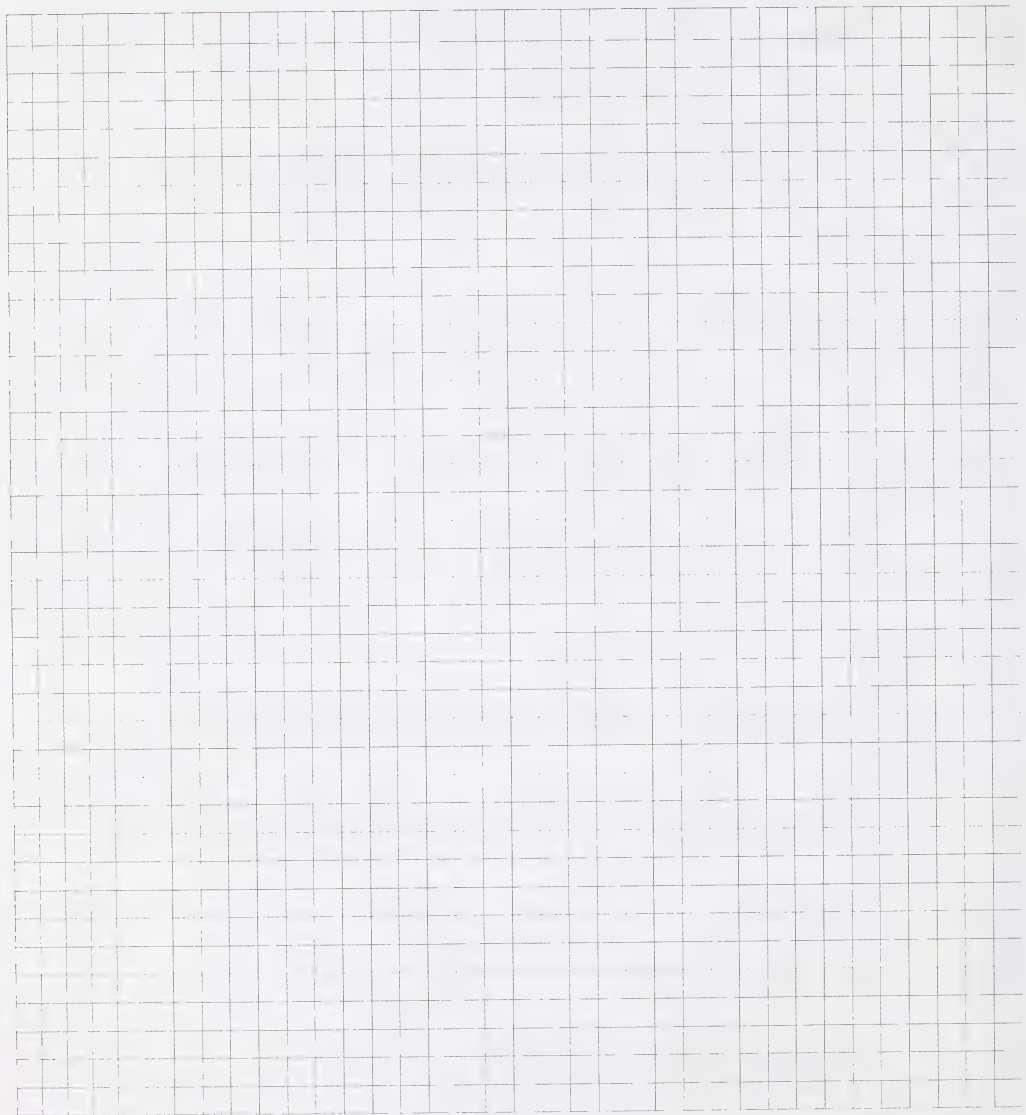
4. Create a model to represent the problem.

5. Write an equation for the model.

6. How much can Cameron spend on each friend?



Quiz
Lesson 7: Problem Solving with Equations



Math 4

Unit 2


Test

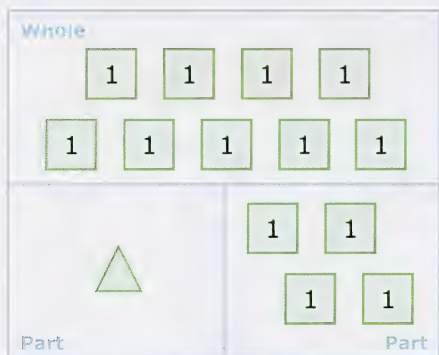
Lessons 5 - 7



For 1 - 2: Write an equation for the part-whole model. Next, find the unknown.

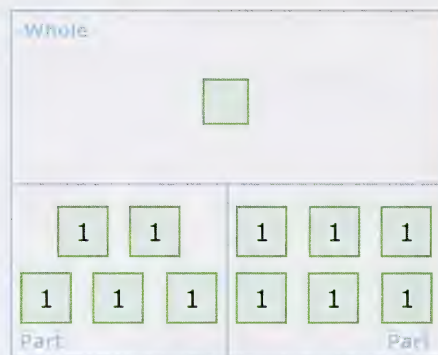
1. _____

 = _____





2. _____

 = _____





For 3 - 4: Complete the equation for the model shown. Next, find the unknown.

3.  x _____ = _____

 = _____





4.  ÷ _____ = _____

 = _____




For 5 - 16: Solve for the unknown.

5.  + 14 = 20

 = _____

6.  - 11 = 15

 = _____

7. $\triangle + 2 = 17$
 $\triangle = \underline{\hspace{2cm}}$

8. $\square - 12 = 7$
 $\square = \underline{\hspace{2cm}}$

9. $\triangle + 13 = 27$
 $\triangle = \underline{\hspace{2cm}}$

10. $\square - 6 = 9$
 $\square = \underline{\hspace{2cm}}$

11. $\triangle \times 9 = 63$
 $\triangle = \underline{\hspace{2cm}}$

12. $\square \div 4 = 10$
 $\square = \underline{\hspace{2cm}}$

13. $\triangle \times 7 = 56$
 $\triangle = \underline{\hspace{2cm}}$

14. $\square \div 6 = 5$
 $\square = \underline{\hspace{2cm}}$

15. $\triangle \times 8 = 40$
 $\triangle = \underline{\hspace{2cm}}$

16. $\square \div 3 = 8$
 $\square = \underline{\hspace{2cm}}$

For 17 - 18: Write an equation for the sentence.

17. the sum of a number and five is seven $\underline{\hspace{2cm}}$

18. the product of a number and eight is sixteen _____

For 19 – 21: Create a model for the problem and solve.

Zach has fifteen pieces of candy. He decides to give three of them to Daksha. Find the amount of candy Zach will now have.

19. Complete the part-whole model:

Whole	
Part	Part

20. Write an equation for the model.

21. How many pieces of candy does Zach have now?

For 22 – 24: Create a model for the problem and solve.

You have twenty cupcakes to share with five people. Each person will get the same number of cupcakes. Find the number of cupcakes each person will get.

22. Create a picture to represent the problem.

23. Write an equation for the model.

24. How many cupcakes will each person get?

